AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1. (Original) A heat sink assembly comprising:
- 2 a heat conduit; and
- a block formed of a thermally conductive material having a first thermal conductivity,
- 4 the heat conduit extending through a substantial portion of the block,
- 5 the heat conduit having a second thermal conductivity greater than the first thermal
- 6 conductivity.
- 1 2. (Original) The heat sink assembly of claim 1, wherein the first thermal conductivity is
- 2 greater than or equal to about 10.
- 1 3. (Original) The heat sink assembly of claim 2, wherein the first thermal conductivity is
- 2 less than or equal to about 100.
- 1 4. (Original) The heat sink assembly of claim 1, wherein the heat conduit is adapted to
- 2 transfer heat from a heat source along its length.
- 1 5. (Original) The heat sink assembly of claim 4, wherein the block is adapted to transfer
- 2 heat away from the heat conduit.
- 1 6. (Original) The heat sink assembly of claim 1, wherein the block has a first segment on
- 2 one side of a portion of the heat conduit, and the block has a second segment on another side of
- 3 the portion of the heat conduit,
- 4 the first segment having a first heat conduction distance to dissipate heat from the heat
- 5 conduit, and the second segment having a second heat conduction distance to dissipate heat from
- 6 the heat conduit.

- 1 7. (Original) The heat sink assembly of claim 6, wherein the first and second heat
- 2 conduction distances are substantially the same.
- 1 8. (Original) The heat sink assembly of claim 7, further comprising a second heat conduit
- 2 extending through another substantial portion of the block.
- 1 9. (Original) The heat sink assembly of claim 8, wherein the block has a third segment on
- 2 one side of a portion of the second heat conduit, and the block has a fourth segment on another
- 3 side of the portion of the second heat conduit,
- 4 the third segment having a third heat conduction distance to dissipate heat from
- 5 the second heat conduit, and the fourth segment having a fourth heat conduction distance to
- 6 dissipate heat from the second heat conduit.
- 1 10. (Original) The heat sink assembly of claim 9, wherein each of the first, second, third, and
- 2 fourth segments have airflow channels extending therethrough.
- 1 11. (Original) The heat sink assembly of claim 5, wherein the block has airflow channels to
- 2 provide surfaces on the block exposed to airflow.
- 1 12. (Original) The heat sink assembly of claim 1, wherein the thermally conductive material
- 2 comprises a non-metallic material.
- 1 13. (Original) The heat sink assembly of claim 1, wherein the thermally conductive material
- 2 comprises a thermally conductive polymer.
- 1 14. (Original) The heat sink assembly of claim 13, wherein the heat conduit comprises a heat
- 2 pipe.
- 1 15. (Original) The heat sink assembly of claim 13, wherein the heat conduit comprises a
- 2 tubular structure having a bore through which fluid is adapted to flow to transfer heat.

- 1 16. (Original) The heat sink assembly of claim 1, further comprising plural other heat
- 2 conduits extending through respective substantial portions of the block.
- 1 17. (Original) The heat sink assembly of claim 1, wherein the heat conduit has a first portion
- 2 and a second portion angled with respect to the first portion, the first portion adapted to contact a
- 3 surface of a heat source.
- 1 18. (Original) The heat sink assembly of claim 17, wherein the block has a vertical axis and a
- 2 horizontal plane formed by two axes, the first portion of the heat conduit extending generally
- 3 along the horizontal plane, and the second portion of the heat conduit extending generally along
- 4 the vertical axis.
- 1 19. (Original) The heat sink assembly of claim 18, wherein the second portion has a shape
- 2 selected from the group consisting of: generally straight, generally S-shaped, and shaped as a
- 3 loop.
- 1 20. (Original) The heat sink assembly of claim 18, further comprising a second heat conduit
- 2 extending through another portion of the block, the second heat conduit having a first portion
- 3 extending generally along the horizontal plane and a second portion extending generally along
- 4 the vertical axis.
- 1 21. (Original) The heat sink assembly of claim 18, wherein the block has a first side edge, the
- 2 second portion of the heat conduit a first distance from the first side edge, the first distance being
- 3 a heat conduction distance of a first segment of the block, the first segment of the block to
- 4 dissipate heat from the heat conduit.

- 1 22. (Original) The heat sink assembly of 21, further comprising a second heat conduit
- 2 extending through another substantial portion of the block, the second heat conduit having a first
- 3 portion extending generally along the horizontal axis and a second portion extending generally
- 4 along the vertical axis, the block having a second side edge, the second portion of the second
- 5 heat conduit a second distance from the second edge, the second distance being a second heat
- 6 conduction distance of a second segment of the block, the second segment to dissipate heat from
- 7 the second heat conduit.
- 1 23. (Original) The heat sink assembly of claim 22, wherein the block has airflow channels
- 2 through at least the first and second segments.
- 1 24. (Original) A method of dissipating heat from a component, comprising:
- 2 providing a block formed of a thermally conductive material having a first thermal
- 3 conductivity; and
- 4 extending an elongated heat conduit through a substantial portion of the block, the
- 5 elongated heat conduit having a second thermal conductivity greater than the first thermal
- 6 conductivity.
- 1 25. (Original) The method of claim 24, wherein extending the elongated heat conduit
- 2 comprises extending a heat pipe.
- 1 26. (Original) The method of claim 24, wherein providing the block formed of the thermally
- 2 conductive material comprises providing the block formed of a thermally conductive polymer.
- 1 27. (Original) The method of claim 24, further comprising extending another elongated heat
- 2 conduit through another substantial portion of the block.

- 1 28. (Original) The method of claim 24, further comprising:
- 2 providing a first segment of the block on one side of a portion of the elongated heat
- 3 conduit to dissipate heat from the elongated heat conduit; and
- 4 providing a second segment of the block on another side of the portion of the elongated
- 5 heat conduit to dissipate heat from the elongated heat conduit.
- 1 29. (Original) The method of claim 28, further comprising providing airflow channels
- 2 through the first and second segments.
- 1 30. (Original) The method of claim 29, wherein the block has a horizontal axis and a vertical
- 2 axis, the portion of the elongated heat conduit extending generally along the vertical axis.
- 1 31. (Original) A system comprising:
- 2 a component; and
- a heat sink thermally contacted to the component,
- 4 the heat sink having a block formed of a thermally conductive material, the heat sink
- 5 having a first segment and a second segment,
- the heat sink further having a heat conduit extending through the block between the first
- 7 and second segments, the first segment to transfer heat away from the heat conduit in a first
- 8 direction, and the second segment to transfer heat away from the heat conduit in a second
- 9 direction.
- 1 32. (Original) The system of claim 31, wherein the heat conduit comprises a heat pipe.
- 1 33. (Original) The system of claim 32, wherein the thermally conductive material comprises
- 2 thermally conductive polymer.
- 1 34. (Original) The system of claim 31, wherein the thermally conductive material has a first
- 2 thermal conductivity, and the heat conduit has a second thermal conductivity greater than the
- 3 first thermal conductivity.

- 1 35. (Original) The system of claim 34, wherein the first thermal conductivity is in a range
- 2 between 10 and 100.
- 1 36. (Original) The system of claim 31, wherein the heat sink further comprises airflow
- 2 channels extending through the first and second segments.
- 1 37. (Original) The system of claim 31, wherein the block further has a third segment and a
- 2 fourth segment, the heat sink further having a second heat conduit extending between the third
- 3 and fourth segments.
- 1 38. (Original) The system of claim 37, wherein the thermally conductive material comprises
- 2 thermally conductive polymer.
- 1 39. (Original) The system of claim 37, wherein the heat conduits comprise heat pipes.
- 1 40. (Previously Presented) A heat sink assembly comprising:
- 2 a heat conduit; and
- a block formed of a thermally conductive material having a first thermal conductivity,
- 4 the heat conduit extending through a substantial portion of the block,
- 5 the heat conduit having a second thermal conductivity greater than the first thermal
- 6 conductivity,
- 7 the block having airflow channels adjacent the heat conduit to provide surfaces in the
- 8 block exposed to airflow.
- 1 41. (Previously Presented) The method of claim 24, wherein the block transfers heat from the
- 2 elongated heat conduit, the method further comprising forming airflow channels in the block
- adjacent the elongated heat conduit to expose surfaces of the block to air flow.

- 1 42. (Previously Presented) The method of claim 41, wherein the elongated heat conduit has a
- 2 first portion angled with respect to a second portion, the first portion extended into the block, the
- 3 method further comprising thermally contacting an outer surface of the second portion to a heat-
- 4 producing device.
- 1 43. (Previously Presented) The system of claim 31, wherein the heat conduit has a first
- 2 portion extending through the block, and the heat conduit has a second portion angled with
- 3 respect to the first portion, an outer surface along a length of the second portion being thermally
- 4 contacted to the component.
- 1 44. (New) The heat sink assembly of claim 1, wherein the block has a first side and a
- 2 second, opposite side, the heat conduit extending through the block from the first side to the
- 3 second side.